



Docket No.: R2184.0274/P274  
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:  
Toshiyuki Kawasaki, et al.

Confirmation No.: 6642

Application No.: 10/679,479

Group Art Unit: 2872

Filed: October 7, 2003

Examiner: Not Yet Assigned

For: DIFFRACTION GRATING, METHOD  
OF FABRICATING DIFFRACTION  
OPTICAL ELEMENT, OPTICAL  
PICKUP DEVICE, AND OPTICAL DISK  
DRIVE

**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT (IDS)**

Commissioner for Patents  
Washington, DC 20231

Dear Sir:

Pursuant to 37 CFR 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Supplemental Information Disclosure Statement is filed before the mailing date of a first Office Action on the merits as far as is known to the undersigned. No certification or fee is required.

A concise explanation of relevance of the items listed on form PTO/SB/08 is:

[ ] not given

[ ] given for each listed item

[ ] given for only non-English language listed items

[ ] in the form of an English language copy of a Search Report from a foreign patent office, issued in a counterpart application, which refers to the relevant portions of the references

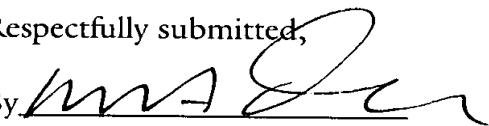
The Examiner's attention is further directed to the following applications:  
10/402,968, filed April 1, 2003; 08/816,790, filed March 19, 1997; 08/291,912, filed August 17, 1994; and 07/504,118, filed April 3, 1990.

In accordance with 37 CFR 1.97(g), the filing of this Supplemental Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 CFR 1.56(a) exists. It is submitted that this Supplemental Information Disclosure Statement is in compliance with 37 CFR 1.98 and the Examiner is respectfully requested to consider the listed references.

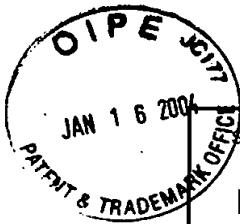
The Commissioner is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 04-1073, under Order No. R2184.0274/P0274.

Dated: January 16, 2004

Respectfully submitted,

By   
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|                                 |   |    |   |                          |                    |
|---------------------------------|---|----|---|--------------------------|--------------------|
| Substitute for form 1449A/B/PTO |   |    |   | <b>Complete if Known</b> |                    |
|                                 |   |    |   | Application Number       | 10/679,479         |
|                                 |   |    |   | Filing Date              | October 7, 2003    |
|                                 |   |    |   | First Named Inventor     | Toshiyuki Kawasaki |
|                                 |   |    |   | Art Unit                 | N/A                |
|                                 |   |    |   | Examiner Name            | Not Yet Assigned   |
| Sheet                           | 1 | of | 1 | Attorney Docket Number   | R2184.0274/P0274   |

| <b>U.S. PATENT DOCUMENTS</b> |                       |                                          |                                |                                                    |                                                                                 |
|------------------------------|-----------------------|------------------------------------------|--------------------------------|----------------------------------------------------|---------------------------------------------------------------------------------|
| Examiner Initials*           | Cite No. <sup>1</sup> | Document Number                          | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines, Where<br>Relevant Passages or Relevant<br>Figures Appear |
|                              |                       | Number-Kind Code <sup>2</sup> (if known) |                                |                                                    |                                                                                 |
| AA                           | 20030072047 A1        | 04/17/2003                               | Funato, et al.                 |                                                    |                                                                                 |
| AB                           | 20020163723 A1        | 11/07/2002                               | Suzudo                         |                                                    |                                                                                 |
| AC                           | 20020093902 A1        | 07/18/2002                               | Hirai, et al.                  |                                                    |                                                                                 |
| AD                           | 20020018432 A1        | 02/14/2002                               | Ohuchida                       |                                                    |                                                                                 |
| AE                           | 20020018433 A1        | 02/14/2002                               | Ohuchida                       |                                                    |                                                                                 |
| AF                           | 20010026523 A1        | 10/04/2001                               | Ohuchida, et al.               |                                                    |                                                                                 |
| AG                           | 6,584,060             | 06/24/2003                               | Oohchida, et al.               |                                                    |                                                                                 |
| AH                           | 6,111,900             | 08/29/2000                               | Suzudo                         |                                                    |                                                                                 |
| AI                           | 6,026,101             | 02/15/2000                               | Suzudo, et al.                 |                                                    |                                                                                 |
| AJ                           | 5,684,779             | 11/04/1997                               | Ohuchida, et al.               |                                                    |                                                                                 |
| AK                           | 5,956,302             | 09/21/1999                               | Maeda, et al.                  |                                                    |                                                                                 |
| AL                           | 5,428,588             | 06/27/1995                               | Ochuchida                      |                                                    |                                                                                 |
| AM                           | 5,325,348             | 06/28/1994                               | Maeda, et al.                  |                                                    |                                                                                 |
| AN                           | 5,231,620             | 07/27/1993                               | Ohuchida                       |                                                    |                                                                                 |
| AO                           | 5,101,389             | 03/31/1992                               | Ohuchida, et al.               |                                                    |                                                                                 |
| AP                           | 5,243,583             | 09/07/1993                               | Ohuchida, et al.               |                                                    |                                                                                 |
| AQ                           | 5,015,835             | 05/14/1991                               | Ohuchida, et al.               |                                                    |                                                                                 |
| AR                           | 5,107,359             | 04/21/1992                               | Ohuchida                       |                                                    |                                                                                 |
| AS                           | 5,278,817             | 01/11/1994                               | Maeda, et al.                  |                                                    |                                                                                 |
| AT                           | 5,115,423             | 05/19/1992                               | Maeda, et al.                  |                                                    |                                                                                 |

| <b>FOREIGN PATENT DOCUMENTS</b> |                       |                                                                                   |                                |                                                    |                                                                                 |
|---------------------------------|-----------------------|-----------------------------------------------------------------------------------|--------------------------------|----------------------------------------------------|---------------------------------------------------------------------------------|
| Examiner Initials*              | Cite No. <sup>1</sup> | Foreign Patent Document                                                           | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines,<br>Where Relevant Passages<br>or Relevant Figures Appear |
|                                 |                       | Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known) |                                |                                                    |                                                                                 |
|                                 |                       |                                                                                   |                                |                                                    |                                                                                 |
|                                 |                       |                                                                                   |                                |                                                    |                                                                                 |

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

| <b>NON PATENT LITERATURE DOCUMENTS</b> |                       |                                                                                                                                                                                                                                                                 |  |  |                |
|----------------------------------------|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|----------------|
| Examiner Initials                      | Cite No. <sup>1</sup> | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. |  |  | T <sup>2</sup> |
|                                        |                       |                                                                                                                                                                                                                                                                 |  |  |                |

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached.